

Conference/Workshop Abstract Approval

Submitted on 8/8/16

Conference/Workshop:

2016 Workshop on Radiation Monitoring for the International Space Station (WRMISS)

Conference/Workshop Place and Time:

Place: Noordwijk, The Netherlands

Time: Sept 6-8, 2016

Author:

Martin Leitgab, on behalf of the ISS-RAD Science Team

Title:

Preliminary On-Orbit Neutron Dose Equivalent and Energy Spectrum Results from the ISS-RAD Fast Neutron Detector (FND)

Abstract:

The ISS-RAD instrument was activated on ISS on February 1st, 2016. Integrated in ISS-RAD, the Fast Neutron Detector (FND) performs, for the first time on ISS, routine and precise direct neutron measurements between 0.5 and 8 MeV. Preliminary results for neutron dose equivalent and neutron flux energy distributions from online/on-board algorithms and offline ground analyses will be shown, along with comparisons to simulated data and previously measured neutron spectral data. On-orbit data quality and pre-launch analysis validation results will be discussed as well.